EP.V.16515 · 11/2013

asecos®

USER MANUAL

Underbench refrigerating cabinet UB90.060.110.KU.S

5 Jahre Garantie*
5 years warranty*

5 JAHRE GARANTIE*
* Bei Abschluss eines **BASICPlus-Vertrages**, mit fester 5-jähriger Laufzeit, genießen Sie 5 Jahre Garantie für Ihren SL-LINE Sicherheitsschrank.

Weitere Informationen zu unseren Garantieleistungen finden Sie unter **www.asecos.nl**

5 YEARS WARRANTY*
Upon conclusion of an asecos service and maintenance agreement **(BasicPlus tariff) with a fixed term of 5 years, you will get a warranty extension for a maximum of 5 years for your SL-LINE safety storage cabinet.*

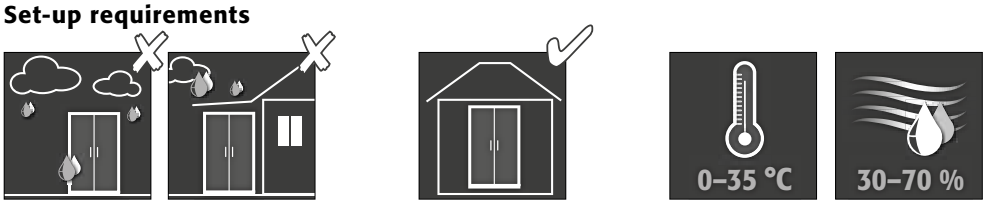
*For detailed information about our warranties please visit **www.asecos.nl***

1. NOTES ▪ GUIDELINES ▪ GUARANTEE

1.1. GENERAL SAFETY NOTES

- Observe applicable statutes and regulations, and the notes in these operating instructions, when handling hazardous materials.
- Work on the electrical system is to be carried out only with the power turned off and only by qualified electricians – refer here to the regulations of the local electricity supply company.
- The on-site installation conditions are to be observed (e.g. bolting the cabinets to the building).
- The instructions of the supervisory engineering department must be followed.
- Observe accident prevention regulations and workplace ordinance.
- Ensure that the necessary safety checks are only carried out by authorised staff using original spare parts.
- Only use the cabinet after having been properly instructed; access is to be forbidden to unauthorised persons.
- The pivoting area of the doors is to be kept free at all times; doors/drawers are to be kept closed.
- By assigning trained/authorised technical personnel you can prevent the malfunctions, damage and corrosion damage that result from inappropriate transport.
- Observe the upper limits for stored quantities, loading etc.
- Containers with a volume larger than that of the spill containment sump may not be placed inside the cabinet; spilt hazardous materials are to be collected immediately and removed.
- Before storing such materials, check that the cabinet's surface is resistant to the chemicals.
- The storage of corrosive liquids or gases can affect the function of the shut-off equipment for the air supply and exhaust.
- Before the initial commissioning, the safety storage cabinet is to be examined by the user for possible damage.

Set-up requirements

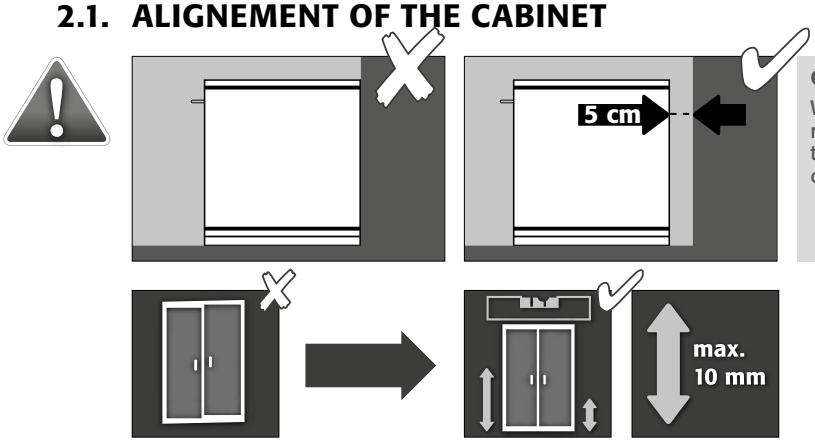


1.2. GUARANTEE

The guarantee for this product is agreed between you (the customer) and your dealer (the seller). As the manufacturer, asecos guarantees the products listed in the operating instructions for a period of 24 months from the date of delivery.
All model safety equipment are subject to a compulsory annual inspection by specialised staff authorised by the manufacturer. Otherwise the customer's guarantee claim against the manufacturer expires.

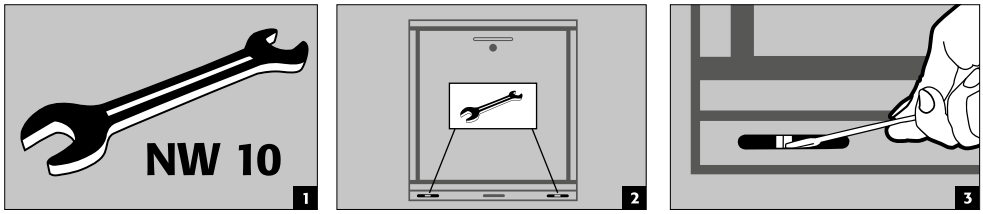
2. ERECTION · COMMISSIONING

2.1. ALIGNEMENT OF THE CABINET

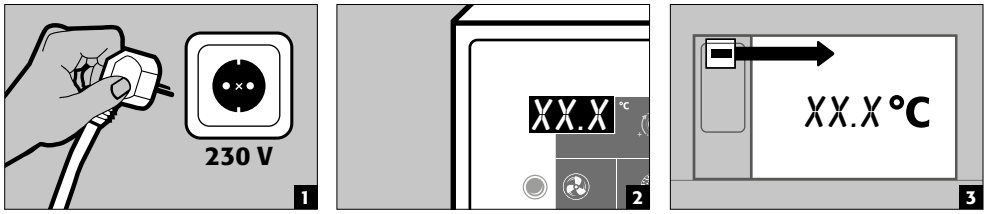


CAUTION:
When the surrounding temperature gets higher than **25 °C** the inner temperature of the cabinet might be increased.

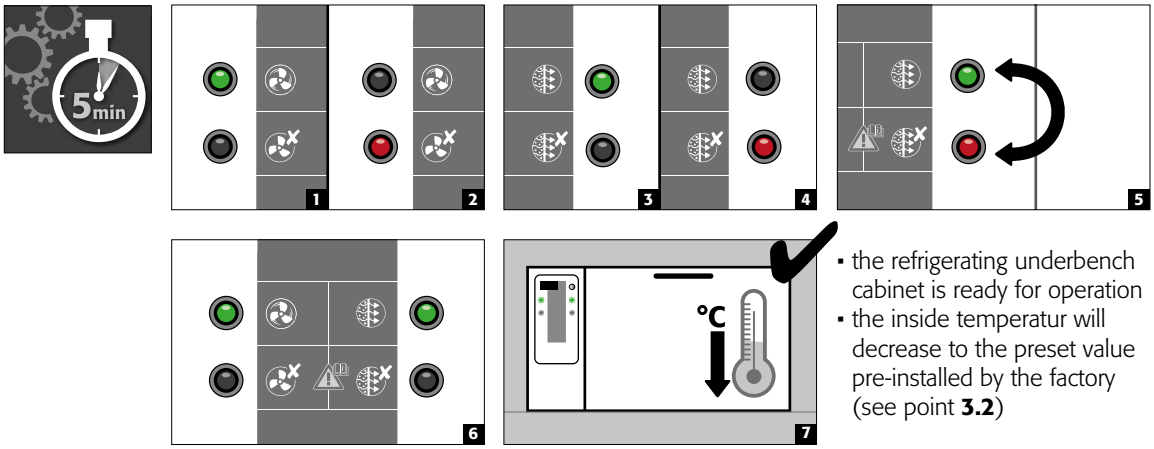
WITH PLINTH (OPTIONAL)



2.2. START-UP

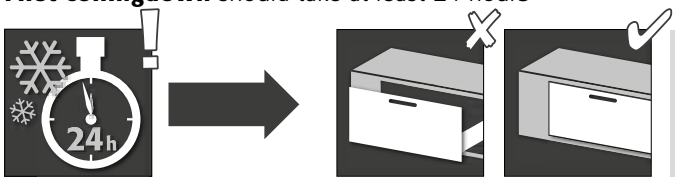


Self-test: starts after connecting the cabinet to the power supply



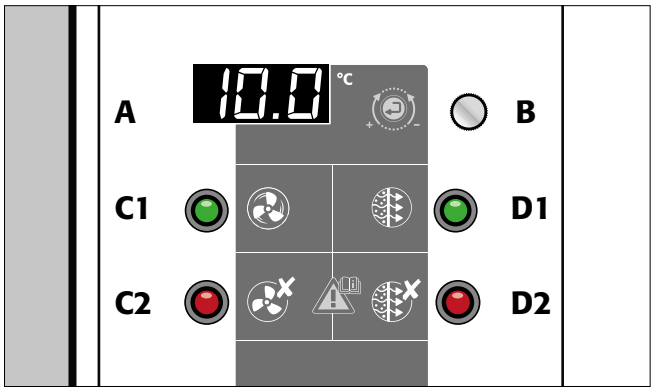
- the refrigerating underbench cabinet is ready for operation
- the inside temperatur will decrease to the preset value pre-installed by the factory (see point **3.2**)

First collingdown should take at least 24 hours



CAUTION:
The time in which the drawer is open should be a short as possible!

3. "7-DIGIT DISPLAY"



A current inside temperature
B Rotary button to show/change preset value
C1 LED "air flow OK"
C2 LED "air flow error"
D1 LED "filter OK" –
D2 LED "filter error"

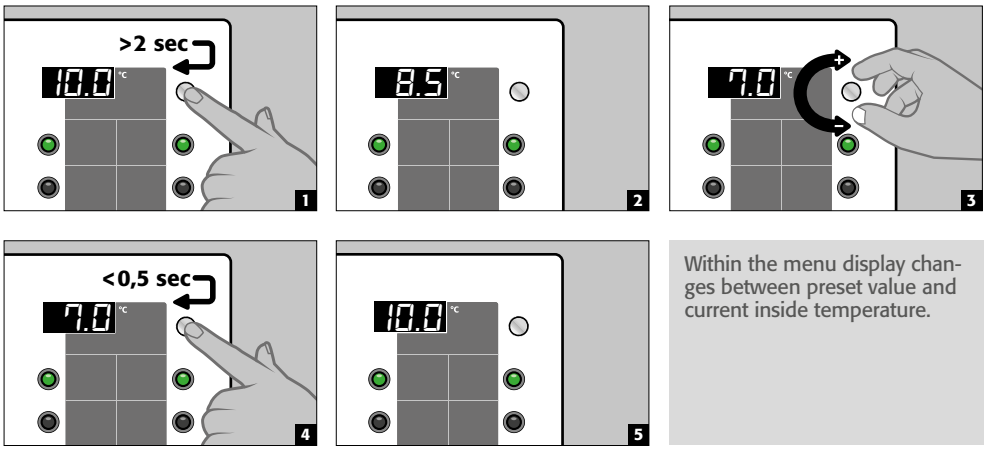
4. FUNCTION

4.1. GENERAL NOTES

CAUTION:
The drawer is to be kept close. The inbuilt magnets will hold the drawer close to the the housing. For best operation of the cabinet make sure the time in which the drawer is open stays as short as possible!

- The inside temperature fluctuates around the value set. This fluctuation is not caused to defect. The control unit has to detect a fluctuation to go active.
- The refrigerator defrosts need-based, even if the temperatures in the cabinet and the vaporizer are at factory-made parameters. The deforsting and connected, momentary temperature increse of the cabiinet interior have no effect on the temperature of the stored fluids, because these react much more inactively to temperature variations. The defrost process is audibly through a loud click and is concluded through adjusted temperature values again.

▪ SHOW AND CHANGE THE PRESET VALUE



Within the menu display changes between preset value and current inside temperature.

CAUTION:
After several seconds without action the menu will be left automatically. According to the surrounding conditions more parameters can be adjusted by our Customer Service Dept.

5. FAULT

5.1. OPERATING DISPLAYS

EVENT	7-digit-display	LED (D1) „filter OK“	LED (D2) „filter error“	LED (C1) „air flow OK“	LED (C2) „air flow error“	aoustic alarm	fan, evaporator, compressor
Self-test	„888“	All LEDs light up briefly in succession, followed by a short beep					Only fan on
Figaro stabilisation		X		Alternating until stabilisation time reached			Only fan on
Normal operation	Interior temperature	X		X			Fan on, remainder according to function
Setting of nominal value for interior temperature	“SP” and nominal value alternating	LED depending on the state of the equipment which is to be monitored					Fan on, remainder according to function
Operating duration >11 months	Interior temperature		Flashing	X			Fan on, remainder according to function
Operating duration >12 months	Interior temperature		X	X		Alarm sound every 60 minutes	Fan on, remainder according to function

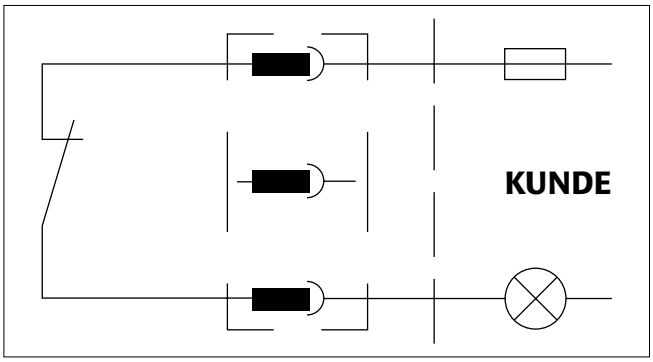
5.2. FAULTS AND ACTIONS

FAULT	PROBLEM – ACTION	NOTE - please observe!
A ▪ 7-digit display is off ▪ LED air flow (C2): short flash every 20 seconds ▪ Signal sound every 60 seconds	**Problem**: Power failure **Actions:** Check power supply at the mains socket and restore if necessary OR 1. Unplug the mains plug. 2. Check the two fine-wire fuses in the C14 socket 3. Replace them by identical fuses if necessary.	In the case of a power failure lasting longer than one hour, the internal battery (emergency power supply) is switched off to protect it against total discharge. After the battery switches off the display and signal sound are also switched off! After the power is restored the refrigerating underbench cabinet starts normal operation again automatically. The battery is charged up again.
B ▪ Air flow alarm (C2) lights up ▪ Warning sound 30 seconds	**Problem**: Exhaust air flow rate has fallen below the minimum required rate (e.g. filter clogged, fire damper closed) **Actions:** 1. Press button to end the warning sound 2. Unplug the mains plug 3. Have the necessary volumetric flow restored by a ventilation expert	Once the exhaust is working again, close the drawer and plug the mains plug into the socket again. If the battery was switched off, the refrigerating underbench cabinet performs a self-test once again.
C ▪ "rSF" on the display	**Problem:** Preset nominal temperature value was not reached. The compressor has been switched off. **Action**: Increase the nominal temperature value (see 3.2) **Refer to Errors if this does not solve the problem**: **D**	"rSF" appears on the display as soon as the nominal temperature value has not been reached within a preset time and the compressor has been switched off. In order to prevent this, ensure during the initial commissioning that the refrigerating underbench cabinet is opened as infrequently as possible. Excessively high ambient temperature and humidity can also lead to this error. The nominal temperature value must then also be increased.
D ▪ "rSF" on the display	**Problem:** The evaporator is iced up. The nominal temperature value was not reached. **Action:** 1. Unplug the mains plug. 2. The evaporator can thaw out. 3. Disconnect the device from the mains for at least 24 hours. 4. After that, plug the mains plug in again. Increase the nominal temperature value (see 3.2), so that this can be reached and icing-up can be avoided	Under standard conditions the icing-up of the evaporator is not possible. Make sure that you select the nominal temperature value on the basis of the external environment in such a way that it is possible to reach it.
E ▪ "AL1" on the display	**Problem:** Temperature in the interior is higher than max. **Action:** 1. Close the drawer if it is open! 2. Check the compressor. If it is off, contact **CUSTOMER SERVICE!**	**See point 8!**
F ▪ "AL2" on the display	**Problem:** Temperature in the interior is lower than min. The compressor does not switch off. **Action: Contact CUSTOMER SERVICE!**	**See point 8!**
G ▪ "PF1" on the display	**Problem:** Temperature sensor in the interior inactive **Action: Contact CUSTOMER SERVICE!**	**See point 8!**
H ▪ "PF2" on the display	**Problem:** Temperature sensor in the evaporator inactive **Action: Contact CUSTOMER SERVICE!**	**See point 8!**
I ▪ "PF3" on the display	**Problem:** Figaro sensor inactive **Action: Contact CUSTOMER SERVICE!**	**See point 8!**
J ▪ "Air" on the display ▪ Air flow alarm (C2) and filter alarm (D2) flash	**Problem:** Error in the air flow monitoring system **Action: Contact CUSTOMER SERVICE!**	**See point 8!**
K ▪ "Err" , C2 / D2 flash ▪ 5 beep sounds	**Further error messages appear after approx. 2 sec** **Action: Contact CUSTOMER SERVICE!**	**See point 8!**
L ▪ "EE" on the display with acoustic signal	**Problem:** Error in the EEPROM **Action: Contact CUSTOMER SERVICE!**	**See point 8!**
M ▪ Air flow OK (C1) and filter alarm (D2) flash	**Problem:** Filter is saturated **Action:** Replace the filter. **Contact CUSTOMER SERVICE!**	**See point 8!**

CAUTION:
If your refrigerating underbench cabinet does not work despite carrying out the troubleshooting actions, please contact our Customer Service Dept. (see point 8).

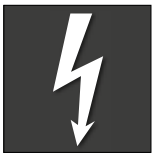
5. POTENTIAL-FREE CONTACT

- The device is equipped with a potentional-free contact that opens in case of alarm and power failure. This can be used to relay an error. The matching plug can be acquired from asecos.



CAUTION:
The middle pin of the contact is not configured.
The contact must be connected as shown in the illustration.

6. REPAIR



CAUTION:
Before every repair the power supply must be disconnected. Repairs may be carried out only by trained specialists. In the case of damage, the device is to be repaired or is to be exchaged through the manufacterer.

7. TECHNICAL DATA

▪ Voltage:	230 V
▪ Frequency:	50/60 Hz
▪ Rated current:	2 A
▪ Starting current:	6,8 A – 8,1 A
▪ Nominal capacity:	Standby: 7,2 W
	Operation: 247 W
▪ cos φ:	0,6

8. SAFETY CHECKS · CONTACT

As safety equipment the cabinets have to be checked for safety at least once per year.
The next checking date can be taken from the check sticker on the outside of the door. This annual check can be carried out with the necessary care, and for securing your warranty claims in the case of fire, only by an authorised asecos employee (refer also to our service brochure regarding this).

In addition, we recommend that you carry out a daily and monthly functional check:

Daily functional check
- applies to the spill containment sumps (collect and remove any leakages)

monthly functional check
- perfect function of the drawer:
- correct seating and condition of the fire protection seals

In case of damage please contact your dealer in order to have the cabinet repaired using original spare parts. The cabinets can be cleaned with a mild household cleaner and a soft cloth.

CONTACT:
In the case of defects or complaints about our products (within and also after the warranty period), and for requesting safety checks or taking out a service contract, please contact our service hotline on:
Tel: +31 172 50 64 76 **info@asecos.nl**

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Your partner:

Uw partner:

Votre partenaire :

Su distribuidor:

su richiesta: